

UNIT PRICE ANALYSIS -- SUMMARY

OMB APPROVAL NO. 45-R271

(By Ship's Work Breakdown Structure)

GROUP 1 HULL STRUCTURE		TOTAL MAN- HOURS	MATERIAL DOLLARS
100	HULL STRUCTURE, GENERAL		
110	SHELL AND SUPPORTING STRUCTURE		
111	Shell Plating, Surf, Ship and Submarine Press. Hull		
112	Shell Plating, Submarine Non-Pressure Hull		
113	Inner Bottom		
114	Shell Appendages		
115	Stanchions		
116	Longit. Framing, Surf. Ship and Submarine Press. Hull		
117	Transv. Framing, Surf. Ship and Submarine Press. Hull		
118	Longit. and Transv. Submarine Non-Press. Hull Framing		
120	HULL STRUCTURAL BULKHEADS		
121	Longitudinal Structural Bulkheads		
122	Transverse Structural Bulkheads		
123	Trunks and Enclosures		
124	Bulkheads in Torpedo Protection System		
125	Submarine Hard Tanks		
126	Submarine Soft Tanks		
130	HULL DECKS		
131	Main Deck		
132	2nd Deck		
133	3rd Deck		
134	4th Deck		
135	5th Deck and Decks Below		
136	01 Hull Deck (Forecastle and Poop Decks)		
137	02 Hull Deck		
138	03 Hull Deck		
139	04 Hull Deck and Hull Decks Above		
140	HULL PLATFORMS AND FLATS		
141	1st Platform		
142	2nd Platform		
143	3rd Platform		
144	4th Platform		
145	5th Platform		
149	Flats		
150	DECK HOUSE STRUCTURE		
151	Deckhouse Structure to First Level		
152	1st Deckhouse Level		
153	2nd Deckhouse Level		
154	3rd Deckhouse Level		
155	4th Deckhouse Level		
156	5th Deckhouse Level		

GROUP 1 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
157	6th Deckhouse Level		
158	7th Deckhouse Level		
159	8th Deckhouse Level		
160	SPECIAL STRUCTURES		
161	Structural Castings, Forgings, and Equiv. Weldments		
162	Stacks and Macks (Combined Stack and Mast)		
163	Sea Chests		
164	Ballistic Plating		
165	Sonar Domes		
166	Sponsons		
167	Hull Structural Closures		
168	Deckhouse Structural Closures		
169	Special Purpose Closures and Structures		
170	MASTS, KINGPOSTS, AND SERVICE PLATFORMS		
171	Masts, Towers, Tetrapods		
172	Kingposts and Support Frames		
179	Service Platforms		
180	FOUNDATIONS		
181	Hull Structure Foundations		
182	Propulsion Plant Foundations		
183	Electric Plant Foundations		
184	Command and Surveillance Foundations		
185	Auxiliary Systems Foundations		
186	Outfit and Furnishings Foundations		
187	Armament Foundations		
190	SPECIAL PURPOSE SYSTEMS		
191	Ballast, Fixed or Fluid, and Buoyancy Units		
192	Compartment Testing		
195	Erection of Sub Sections (Progress Report Only)		
198	Free Flooding Liquids		
199	Hull Repair Parts and Special Tools		
TOTAL			
GROUP 2 PROPULSION PLANT			
200	PROPULSION PLANT, GENERAL		
210	ENERGY GENERATING SYSTEM (NUCLEAR)		
211	(Reserved)		
212	Nuclear Steam Generator		
213	Reactors		
214	Reactor Coolant System		

GROUP 2 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
215	Reactor Coolant Service Systems		
216	Reactor Plant Auxiliary Systems		
217	Nuclear Power Control and Instrumentation		
218	Radiation Shielding (Primary)		
219	Radiation Shielding (Secondary)		
220	ENERGY GENERATING SYSTEM (NON-NUCLEAR)		
221	Propulsion Boilers		
222	Gas Generators		
223	Main Propulsion Batteries		
224	Main Propulsion Fuel Cells		
230	PROPULSION UNITS		
231	Propulsion Steam Turbines		
232	Propulsion Steam Engines		
233	Propulsion Internal Combustion Engines		
234	Propulsion Gas Turbines		
235	Electric Propulsion		
236	Self-Contained Propulsion Systems		
237	Auxiliary Propulsion Devices		
238	Secondary Propulsion (Submarines)		
239	Emergency Propulsion (Submarines)		
240	TRANSMISSION AND PROPULSOR SYSTEMS		
241	Propulsion Reduction Gears		
242	Propulsion Clutches and Couplings		
243	Propulsion Shafting		
244	Propulsion Shaft Bearings		
245	Propulsors		
246	Propulsors Shrouds and Ducts		
247	Water Jet Propulsors		
250	PROPULSION SUPPORT SYS. (EXCEPT FUEL AND LUBE OIL)		
251	Combustion Air System		
252	Propulsion Control System		
253	Main Steam Piping System		
254	Condensers and Air Ejectors		
255	Feed and Condensate System		
256	Circulating and Cooling Sea Water System		
259	Uptakes (Inner Casting)		
260	PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)		
261	Fuel Service System		
262	Main Propulsion Lube Oil System		
263	Shaft Lube Oil System (Submarines)		
264	Lube Oil Fill, Transfer, and Purification		

GROUP 2 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
290	SPECIAL PURPOSE SYSTEMS		
298	Propulsion Plant Operating Fluids		
299	Propulsion Plant Repair Parts and Special Tools		
	TOTAL		
GROUP 3 ELECTRIC PLANT			
300	ELECTRIC PLANT, GENERAL		
310	ELECTRIC POWER GENERATION		
311	Ship Service Power Generation		
312	Emergency Generators		
313	Batteries and Service Facilities		
314	Power Conversion Equipment		
320	POWER DISTRIBUTION SYSTEMS		
321	Ship Service Power Cable		
322	Emergency Power Cable System		
323	Casualty Power Cable System		
324	Switchgear and panels		
330	LIGHTING SYSTEM		
331	Lighting Distribution		
332	Lighting Fixtures		
340	POWER GENERATION SUPPORT SYSTEMS		
341	SSTG Lube Oil		
342	Diesel Support Systems		
343	Turbine Support Systems		
390	SPECIAL PURPOSE SYSTEMS		
398	Electric Plant Operating Fluids		
399	Electric Plant Repair Parts and Special Tools		
	TOTAL		
GROUP 4 COMMAND AND SURVEILLANCE			
400	COMMAND AND SURVEILLANCE, GENERAL		
410	COMMAND AND CONTROL SYSTEMS		
411	Data Display Group		
412	Data Processing Group		
413	Digital Data Switchboards		
414	Interface Equipment		

GROUP 4 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
415	Digital Data Communications		
416	Command and Control Testing		
417	Command and Control Analog Switchboards		
420	NAVIGATION SYSTEMS		
421	Non-Electrical/Electronic Navigation Aids		
422	Electrical Navigation Aids (Incl Navig. Lights)		
423	Electronic Navigation Systems, Radio		
424	Electronic Navigation Systems, Acoustical		
425	Periscopes		
426	Electrical Navigation Systems		
427	Inertial Navigation Systems		
430	INTERIOR COMMUNICATIONS		
431	Switchboards for I.C. Systems		
432	Telephone Systems		
433	Announcing Systems		
434	Entertainment and Training Systems		
435	Voice Tubes and Message Passing Systems		
436	Alarm, Safety, and Warning Systems		
437	Indicating, Order, and Metering Systems		
438	Integrated Control Systems		
439	Recording and Television Systems		
440	EXTERIOR COMMUNICATIONS		
441	Radio Systems		
442	Underwater Systems		
443	Visual and Audible Systems		
444	Telemetry Systems		
445	TTY and Facsimile Systems		
446	Security Equipment		
450	SURVEILLANCE SYSTEMS (SURFACE)		
451	Surface Search Radar		
452	Air Search Radar (2D)		
453	Air Search Radar (3D)		
454	Aircraft Control Approach Radar		
455	Identification Systems (IFF)		
459	Space Vehicle Electronic Tracking		
460	SURVEILLANCE SYSTEMS (UNDERWATER)		
461	Active Sonar		
462	Passive Sonar		
463	Active/Passive (Multiple Mode) Sonar		
464	Classification Sonar		
465	Bathythermograph		

GROUP 4 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
470	COUNTERMEASURES		
471	Active ECM (Incl Combination Active/Passive)		
472	Passive ECM		
473	Torpedo Decoys		
474	Decoys (Other)		
475	Degaussing		
476	Mine Countermeasures		
480	FIRE CONTROL SYSTEMS		
481	Gun Fire Control Systems		
482	Fire Control Systems (Non-Sonar Data Base)		
483	Fire Control Systems (Sonar Data Base)		
489	Fire Control Systems Switchboards		
490	SPECIAL PURPOSE SYSTEMS		
491	Electronic Test, Checkout, and Monitoring Equipment		
492	Flight Control and Instrument Landing Systems		
493	Non Combat Data Processing Systems		
494	Meteorological Systems		
495	Integrated Operational Intelligence Systems		
498	Command and Surveillance Operating Fluids		
499	Command and Surv. Repair Parts and Special Tools		
	TOTAL		
GROUP 5 AUXILIARY SYSTEMS			
500	AUXILIARY SYSTEMS, GENERAL		
510	CLIMATE CONTROL		
511	Compartment Heating System		
512	Ventilation System		
513	Machinery Space Ventilation System		
514	Air Conditioning System		
515	Air Revitalization Systems (Submarines)		
516	Refrigeration System		
517	Auxiliary Boilers and Other Heat Sources		
520	SEA WATER SYSTEMS		
521	Firemain and Flushing (Sea Water) System		
522	Sprinkler System		
523	Washdown System		
524	Auxiliary Sea Water System		
526	Scuppers and Deck Drains		
527	Firemain Actuated Services - Other		
528	Plumbing Drainage		
529	Drainage and Ballasting System		

GROUP 5 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
530	FRESH WATER SYSTEMS		
531	Distilling Plant		
532	Cooling Water		
533	Potable Water		
534	Aux. Steam and Drains Within Machinery Box		
535	Aux. Steam and Drains Outside Machinery Box		
536	Auxiliary Fresh Water Cooling		
540	FUELS AND LUBRICANTS, HANDLING AND STORAGE		
541	Ship Fuel and Fuel Compensating System		
542	Aviation and General Purpose Fuels		
543	Aviation and General Purpose Lubricating Oil		
544	Liquid Cargo		
545	Tank Heating		
550	AIR, GAS, AND MISC. FLUID SYSTEMS		
551	Compressed Air Systems		
552	Compressed Gases		
553	O ₂ N ₂ System		
554	LP Blow		
555	Fire Extinguishing Systems		
556	Hydraulic Fluid System		
557	Liquid Gases, Cargo		
558	Special Piping Systems		
560	SHIP CONTROL SYSTEMS		
561	Steering and Diving Control Systems		
562	Rudder		
563	Buoyancy and Hovering (Submarines)		
564	Trim System (Submarines)		
565	Trim and Heel (Roll Stabilization)		
566	Diving Planes and Stabilizing Fins		
567	Lift Systems		
568	Maneuvering Systems		
570	UNDERWAY REPLENISHMENT SYSTEMS		
571	Replenishment-At-Sea		
572	Ship Stores and Personnel and Equip. Handling		
573	Cargo Handling		
580	MECHANICAL HANDLING SYSTEM		
581	Anchor Handling and Stowage Systems		
582	Mooring and Towing Systems		
583	Boat Handling and Stowage Systems		
584	Mechanically Operated Door, Gate, Ramp, Turntable Sys.		
585	Elevating and Retracting Gear		

GROUP 5 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
586	Aircraft Recovery Support Systems		
587	Aircraft Launch Support Systems		
588	Aircraft Handling, Servicing and Stowage		
589	Miscellaneous Mechanical Handling Systems		
590	SPECIAL PURPOSE SYSTEMS		
591	Scientific and Ocean Engineering Systems		
592	Swimmer and Diver Support and Protection Systems		
593	Environmental Pollution Control Systems		
594	Submarine Rescue, Salvage, and Survival Systems		
595	Towing, Launching and Handling for Underwater Sys.		
596	Handling Sys. for Diver and Submersible Vehicles		
597	Salvage Support Systems		
598	Auxiliary Systems Operating Fluids		
599	Auxiliary Systems Repair Parts and Tools		
	TOTAL		
GROUP 6 OUTFIT AND FURNISHINGS			
600	OUTFIT AND FURNISHINGS, GENERAL		
610	SHIP FITTINGS		
611	Hull Fittings		
612	Rails, Stanchions, and Lifelines		
613	Rigging and Canvas		
620	HULL COMPARTMENTATION		
621	Non-Structural Bulkheads		
622	Floor Plates and Gratings		
623	Ladders		
624	Non-Structural Closures		
625	Airports, Fixed Portlights, and Windows		
630	PRESERVATIVES AND COVERINGS		
631	Painting		
632	Zinc Coating		
633	Cathodic Protection		
634	Deck Covering		
635	Hull Insulation		
636	Hull Damping		
637	Sheathing		
638	Refrigerated Spaces		
639	Radiation Shielding		
640	LIVING SPACES		
641	Officer Berthing and Messing Spaces		

GROUP 6 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
642	Noncommissioned Officer Berthing and Messing Spaces		
643	Enlisted Personnel Berthing and Messing Spaces		
644	Sanitary Spaces and Fixtures		
645	Leisure and Community Spaces		
650	SERVICE SPACES		
651	Commissary Spaces		
652	Medical Spaces		
653	Dental Spaces		
654	Utility Spaces		
655	Laundry Spaces		
656	Trash Disposal Spaces		
660	WORKING SPACES		
661	Offices		
662	Machinery Control Centers Furnishings		
663	Electronics Control Centers Furnishings		
664	Damage Control Stations		
665	Workshops, Labs, Test Areas (Incl Portable Tools, Equip)		
670	STOWAGE SPACES		
671	Lockers and Special Stowage		
672	Storerooms and Issue Rooms		
673	Cargo Stowage		
690	SPECIAL PURPOSE SYSTEMS		
698	Outfit and Furnishings Operating Fluids		
699	Outfit and Furnish. Repair Parts and Special Tools		
	TOTAL		
GROUP 7 ARMAMENT			
700	ARMAMENT, GENERAL		
710	GUNS AND AMMUNITION		
711	Guns		
712	Ammunition Handling		
713	Ammunition Stowage		
720	MISSILES AND ROCKETS		
721	Launching Devices (Missiles and Rockets)		
722	Missile, Rocket, and Guidance Capsule Handling Sys.		
723	Missile and Rocket Stowage		
724	Missile Hydraulics		

GROUP 7 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
725	Missile Gas		
726	Missile Compensating		
727	Missile Environmental Monitoring and Launcher Contr.		
728	Missile Heating, Cooling, Temperature Control		
730	MINES		
731	Mine Launching Devices		
732	Mine Handling		
733	Mine Stowage		
740	DEPTH CHARGES		
741	Depth Charge Launching Devices		
742	Depth Charge Handling		
743	Depth Charge Stowage		
750	TORPEDOES		
751	Torpedo Tubes		
752	Torpedo Handling		
753	Torpedo Stowage		
754	Submarine Torpedo Ejection		
760	SMALL ARMS AND PYROTECHNICS		
761	Small Arms and Pyrotechnic Launching Devices		
762	Small Arms and Pyrotechnic Handling		
763	Small Arms and Pyrotechnic Stowage		
770	CARGO MUNITIONS		
772	Cargo Munitions Handling		
773	Cargo Munitions Stowage		
780	AIRCRAFT RELATED WEAPONS		
782	Aircraft Related Weapons Handling		
783	Aircraft Related Weapons Stowage		
790	SPECIAL PURPOSE SYSTEMS		
792	Special Weapons Handling		
793	Special Weapons Stowage		
797	Misc. Ordnance Spaces		
798	Armament Operating Fluids		
799	Armament Repair Parts and Special Tools		
	TOTAL		

GROUP 8 INTEGRATION/ENGINEERING (SHIPBUILDER RESPONSE)		TOTAL MAN- HOURS	MATERIAL DOLLARS
800	INTEGRATION/ENGINEERING (SHIPBUILDER RESPONSE)		
801	Shipbuilders Information Drawings		
802	Contract Drawings		
803	Standard Drawings		
804	Type Drawings		
806	Study Drawings		
810	Production Engineering		
811	Configuration Management		
812	Change Proposals, Scoping and Shipchecking		
813	Planning and Production Control		
820	Special Drawings for Nuclear Propulsion Systems		
830	Design Support		
831	Construction Drawings		
832	Specifications		
833	Weight Engineering		
834	Computer Programs		
835	Engineering Calculations		
836	Models and Mockups		
837	Photographs		
838	Design/Engineering Liaison		
839	Lofting		
840	Quality Assurance		
841	Tests and Inspection, Criteria, and Procedures		
842	Trials Agenda Preparation, Data Collection and Anal.		
843	Inclining Experiment and Trim Dive		
844	Combat Systems Checkout Criteria, and Procedures		
845	Certification Standards		
850	Integrated Logistic Support Engineering		
851	Maintenance		
852	Support and Test Equipment		
853	Supply Support		
854	Transportation		
855	Engineering Drawings and Specifications		
856	Technical Manuals and Other Data		
857	Facilities		
858	Personnel and Training		
859	Training Equipment		
890	Special Purpose Items		
891	Safety		
892	Human Factors		
893	Standardization		
894	Value Engineering		
895	Reliability and Maintainability		
896	Data Management		
897	Project Management		
	TOTAL		
GROUP 9 SHIP ASSEMBLY AND SUPPORT SERVICES			
900	SHIP ASSEMBLY AND SUPPORT SERVICES		
901	901 Thru 979 Reserved for Ident. of Assemblies		
980	Contractual and Production Support Service		
981	Insurance		
982	Trials		

GROUP 6 (Continued)		TOTAL MAN- HOURS	MATERIAL DOLLARS
983	Delivery		
984	Open and Inspect (Conversions Only)		
985	Fire and Flooding Protection		
986	Tests and Inspections		
987	Weighing and Recording		
988	Contract Data Requirements (Administration)		
989	Fitting-Out		
990	Construction Support		
991	Staging, Scaffolding, and Cribbing		
992	Temporary Utilities and Services		
993	Material Handling and Removal		
994	Cleaning Services		
995	Molds and Templates, Jigs, Fixtures, and Spec. Tools		
996	Launching		
997	Drydocking		
	TOTAL		
	GRAND TOTAL		